

Appendix C

Vegetation Monitoring Data Table

Appendix C to the Meadowdale
Beach Park and Estuary Restoration
Effectiveness Monitoring Year 3
Report 2026

Meadowdale Beach Park and Estuary Monitoring - Vegetative Plot Cover
Year 3 (2025)

Plot	Stratum	Common Name	Scientific Name	% Cover
VP1	S	Vine maple	<i>Acer circanatum</i>	2
	S	Red alder	<i>Alnus rubra</i>	65
	H	Ladyfern	<i>Athyrium filix-femina</i>	5
	H	Bull thistle	<i>Cirsium vulgare</i>	5
	H	Tufted hairgrass	<i>Deschampsia cespitosa</i>	5
	H	Hairy Willowherb	<i>Epilobium hirsutum</i>	75
	S	Salal	<i>Gaultheria shallon</i>	5
	H	Bird's-foot trefoil	<i>Lotus corniculatus</i>	45
	H	Swordfern	<i>Polystichum munitum</i>	5
	S	Black cottonwood	<i>Populus balsamifera</i>	2
	H	Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	5
	S	Himalayan blackberry	<i>Rubus armeniacus</i>	2
	S	Salmonberry	<i>Rubus spectabilis</i>	2
	H	Small-fruited bullrush	<i>Scirpus microcarpus</i>	2
	S	Western redcedar	<i>Thuja plicata</i>	5
	H	White clover	<i>Trifolium repens</i>	5
		VP1 Results	Total	153
			Herbaceous	69
			Shrub	81
			Non-native	82
VP2	S	Big Leaf Maple	<i>Acer macrophyllum</i>	2
	S	Red alder	<i>Alnus rubra</i>	10
	S	Redosier dogwood	<i>Cornus sericea</i>	trace
	H	Hairy Willowherb	<i>Epilobium hirsutum</i>	trace
	H	Giant horsetail	<i>Equisetum telmateia</i>	50
	H	Coastal strawberry	<i>Fragaria chiloensis</i>	45
	H	Herb robert	<i>Geranium robertianum</i>	trace
	S	Black twinberry	<i>Lonicera involucrata</i>	7
	S	Pacific ninebark	<i>Physocarpus capitatus</i>	15
	H	Swordfern	<i>Polystichum munitum</i>	10
	H	Tall buttercup	<i>Ranunculus acris</i>	2
	H	Creeping buttercup	<i>Ranunculus repens</i>	trace
	S	Himalayan blackberry	<i>Rubus armeniacus</i>	trace
	S	Creeping blackberry	<i>Rubus ursinus</i>	5
		VP2 Results	Total	146
			Herbaceous	107
			Shrub	39
			Non-native	0

Meadowdale Beach Park and Estuary Monitoring - Vegetative Plot Cover
Year 3 (2025)

Plot	Stratum	Common Name	Scientific Name	% Cover
VP3	H	Colonial bentgrass	<i>Agrostis capillaris</i>	15
	T	Red alder	<i>Alnus rubra</i>	12
	S	Red alder	<i>Alnus rubra</i>	2
	S	Beaked hazelnut	<i>Corylus cornuta</i>	2
	H	Tufted hairgrass	<i>Deschampsia cespitosa</i>	trace
	H	Hairy Willowherb	<i>Epilobium hirsutum</i>	trace
	H	Giant horsetail	<i>Equisetum telmateia</i>	2
	H	Coastal strawberry	<i>Fragaria chiloensis</i>	60
	S	Salal	<i>Gaultheria shallon</i>	2
	S	Black twinberry	<i>Lonicera involucrata</i>	5
	S	Pacific ninebark	<i>Physocarpus capitatus</i>	15
	S	Douglas fir	<i>Pseudotsuga menziesii</i>	15
	H	Tall buttercup	<i>Ranunculus acris</i>	trace
	S	Himalayan blackberry	<i>Rubus armeniacus</i>	trace
	S	Salmonberry	<i>Rubus spectabilis</i>	12
	H	Curly dock	<i>Rumex crispex</i>	trace
	S	Scouler's willow	<i>Salix scouleriana</i>	25
	S	Western redcedar	<i>Thuja plicata</i>	trace
		VP3 Results	Total	167
			Herbaceous	77
			Shrub	78
			Tree	12
			Non-native	0
VP4	H	Colonial bentgrass	<i>Agrostis capillaris</i>	25
	H	Red fescue	<i>Festuca rubra</i>	5
	H	Bird's-foot trefoil	<i>Lotus corniculatus</i>	2
	S	Red alder	<i>Alnus rubra</i>	60
	S	Sitka willow	<i>Salix sitchensis</i>	25
	S	Nootka rose	<i>Rosa nutkana</i>	15
	S	Pacific ninebark	<i>Physocarpus capitatus</i>	5
	H	Coastal strawberry	<i>Fragaria chiloensis</i>	50
	H	White clover	<i>Trifolium repens</i>	10
	S	Butterfly bush	<i>Buddleja davidii</i>	5
	H	Hairy Willowherb	<i>Epilobium hirsutum</i>	15
	S	Salal	<i>Gaultheria shallon</i>	10
	H	Swordfern	<i>Polystichum munitum</i>	trace
	H	Dandelion	<i>Taraxacum officinale</i>	trace
	S	Western redcedar	<i>Thuja plicata</i>	trace
	H	Creeping buttercup	<i>Ranunculus repens</i>	2
	S	Pacific willow	<i>Salix lucida</i>	12
		VP4 Results	Total	221
			Herbaceous	94
			Shrub	127
			Non-native	20

Meadowdale Beach Park and Estuary Monitoring - Vegetative Plot Cover
Year 3 (2025)

Plot	Stratum	Common Name	Scientific Name	% Cover
VP5	T	Big Leaf Maple	<i>Acer macrophyllum</i>	20
	H	Giant horsetail	<i>Equisetum telmateia</i>	50
	S	Himalayan blackberry	<i>Rubus armeniacus</i>	10
	H	Spotted jewelweed	<i>Impatiens capensis</i>	15
	H	Piggyback plant	<i>Tolmiea menziesii</i>	80
	T	Red alder	<i>Alnus rubra</i>	15
	S	salmonberry	<i>Rubus spectabilis</i>	70
	H	Swordfern	<i>Polystichum munitum</i>	5
	S	Western hemlock	<i>Tsuga heterophylla</i>	1
	T	Western redcedar	<i>Thuja plicata</i>	35
	H	Stinging nettle	<i>Urtica dioica</i>	5
		VP5 Results	Total	281
			Herbaceous	140
			Shrub	81
			Tree	70
			Non-native	25
VP6	T	Red alder	<i>Alnus rubra</i>	40
	H	Giant horsetail	<i>Equisetum telmateia</i>	trace
	S	Sitka spruce	<i>Picea sitchensis</i>	1
	T	Douglas fir	<i>Pseudotsuga menziesii</i>	4
	H	Creeping buttercup	<i>Ranunculus repens</i>	5
	S	Salmonberry	<i>Rubus spectabilis</i>	70
	S	Creeping blackberry	<i>Rubus ursinus</i>	5
	T	Western redcedar	<i>Thuja plicata</i>	15
	H	Piggyback plant	<i>Tolmiea menziesii</i>	25
	H	Stinging nettle	<i>Urtica dioica</i>	trace
		VP6 Results	Total	165
			Herbaceous	30
			Shrub	76
			Tree	59
			Non-native	0

Meadowdale Beach Park and Estuary Monitoring - Vegetative Plot Cover
Year 3 (2025)

Plot	Stratum	Common Name	Scientific Name	% Cover
VP7	S	Red alder	<i>Alnus rubra</i>	60
	S	Butterfly bush	<i>Buddleja davidii</i>	trace
	H	Lyngbye's sedge	<i>Carex lyngbyei</i>	10
	H	Bull thistle	<i>Cirsium vulgare</i>	trace
	H	Hairy Willowherb	<i>Epilobium ciliatum</i>	5
	H	Soft rush	<i>Juncus effusus</i>	10
	H	Bird's-foot trefoil	<i>Lotus corniculatus</i>	40
	H	Reed canarygrass	<i>Phalaris arundinacea</i>	trace
	H	Annual rabbitsfoot grass	<i>Polypogon monspeliensis</i>	trace
	S	Black cottonwood	<i>Populus balsamifera</i>	5
	H	Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	30
	H	American three-square	<i>Scirpus americanus</i>	15
	H	Small-fruited bullrush	<i>Scirpus microcarpus</i>	10
	H	White clover	<i>Trifolium repens</i>	5
	VP7 Results		Total	190
			Herbaceous	125
			Shrub	65
			Non-native	0

Site Average	Total	189
	Herbaceous	92
	Shrub	78
	Tree	20
	Non-native	18

Notes: T = tree, S = shrub, H = herbaceous

Red highlighted cell indicaes a non-native species

Blue highlighted cell indicates existing plant (not installed)

Meadowdale Beach Park and Estuary Monitoring - Vegetative Transect Cover (Quadrats)

Year 3 (2025)

Stratum	Common Name	Scientific Name	% Cover						
Transect			VT1						
Quadrat			3	8	11	14	30	40	Average
H	Lyngbye's sedge	<i>Carex Lyngbyei</i>			5	5	8		
H	Coastal saltgrass	<i>Distichlis spicata</i>					8	20	
H	Beach strawberry	<i>Fragaria chiloensis</i>			10	10			
H	Gumweed	<i>Grindelia integrifolia</i>	5	1		10	8		
H	American dunegrass	<i>Leymus mollis</i>	20	15	10			15	
Totals:		Native	25	16	25	25	24	35	25
		Invasive	0	0	0	0	0	0	0
Transect			VT2						
Quadrat			2	6	12	14	24	42	Average
H	Colonial bentgrass	<i>Agrostis capillaris</i>				20		15	
S	Red alder	<i>Alnus rubra</i>	2	5	10	30	45		
H	Hedge bindweed	<i>Calystegia sepium</i>					1		
H	Tufted hair grass	<i>Deschampsia caespitosa</i>	95	82	35	10	5	5	
H	Hairy willowherb	<i>Epilobium hirsutum</i>						1	
H	Lamp rush	<i>Juncus effusus</i>					10		
H	Bird's-foot trefoil	<i>Lotus corniculatus</i>					80	50	
H	Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	1	2	15	10		10	
H	Tall buttercup	<i>Ranunculus acris</i>						1	
H	Creeping buttercup	<i>Ranunculus repens</i>		2	1				
S	Sitka willow	<i>Salix sitchensis</i>			2				
H	Douglas aster	<i>Symphyotrichum subspicatum</i>	5	20					
H	Dandelion	<i>Taraxacum officinale</i>					2		
H	White clover	<i>Trifolium repens</i>			15	1	5	1	
Totals:		Native	103	111	78	71	145	82	98.3
		Invasive	0	0	0	0	3	1	0.7

Meadowdale Beach Park and Estuary Monitoring - Vegetative Transect Cover (Quadrats)
Year 3 (2025)

Stratum	Common Name	Scientific Name	% Cover						
Transect			VT3						
Quadrat			1	4	14	18	21	43	Average
H	Colonial bentgrass	<i>Agrostis capillaris</i>				1			
S	Red alder	<i>Alnus rubra</i>	5					25	
H	Tufted Hair Grass	<i>Deschampsia caespitosa</i>	40	12	55	15	10	5	
H	Hairy willowherb	<i>Epilobium hirsutum</i>	2						
H	Velvetgrass	<i>Holcus lanatus</i>						5	
H	Bird's-foot trefoil	<i>Lotus corniculatus</i>	10	5	10	2	2	20	
H	Creeping buttercup	<i>Ranunculus repens</i>	10	15			2	1	
S	Sitka willow	<i>Salix sitchensis</i>	5						
H	Small-fruited bullrush	<i>Scirpus microcarpus</i>	25	60		5			
H	Douglas aster	<i>Symphyotrichum subspicatum</i>			1			1	
H	White clover	<i>Trifolium repens</i>	10	30	75	80	80		
Totals:		Native	105	122	141	103	94	57	103.7
		Invasive	2	0	0	0	0	0	0.3
Transect			VT4						
Quadrat			1	2	10	25	44	47	Average
H	Colonial bentgrass	<i>Agrostis capillaris</i>				5			
H	European water plantain	<i>Alisma plantago-aquatica</i>	1	2	1		20	35	
H	Bull thistle	<i>Cirsium vulgare</i>						1	
H	Tufted hair grass	<i>Deschampsia caespitosa</i>					5		
H	Coastal saltgrass	<i>Distichlis spicata</i>					60	10	
H	Gumweed	<i>Grindelia integrifolia</i>				5			
H	Beach pea	<i>Lathyrus japonicus</i>	5						
H	American dunegrass	<i>Leymus mollis</i>	5	5	30	50			
H	Maritime rabbit's-foot	<i>Polypogon maritimus</i>					1		
H	Douglas aster	<i>Symphyotrichum subspicatum</i>	45	45	65				
Totals:		Native	57	54	106	85	86	45	72.2
		Invasive	0	0	0	0	0	0	0

Meadowdale Beach Park and Estuary Monitoring - Vegetative Transect Cover (Quadrats)
Year 3 (2025)

Stratum	Common Name	Scientific Name	% Cover						
Transect			VT5						
Quadrat			28	34	37	43	45		Average
H	Colonial bentgrass	<i>Agrostis capillaris</i>	1						
S	Red alder	<i>Alnus rubra</i>		5	1				
H	Giant horsetail	<i>Equisetum telmateia</i>				1			
H	Jewelweed	<i>Impatiens capensis</i>	1	10	30	20	20		
H	Lamp rush	<i>Juncus effusus</i>	40	35	30	5	25		
H	Swordleaf rush	<i>Juncus ensifolius</i>	15						
H	Reed canarygrass	<i>Phalaris arundinacea</i>			5				
H	Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	35	70	15	15	25		
H	Creeping buttercup	<i>Ranunculus repens</i>				1	5		
H	Hardstem bullrush	<i>Schoenoplectus acutus</i>	1	2			5		
H	Small-fruited bullrush	<i>Scirpus microcarpus</i>			2	75	5		
H	Dandelion	<i>Taraxacum officinale</i>	1						
Totals:		Native	92	112	53	97	65		83.8
		Invasive	2	10	30	20	20		16.4

Meadowdale Beach Park and Estuary Monitoring - Vegetative Transect Cover (Quadrats)
Year 3 (2025)

Stratum	Common Name	Scientific Name	% Cover					
Transect			VT6					
Quadrat			5	6	14	31	35	Average
H	Colonial bentgrass	<i>Agrostis capillaris</i>	10	10			1	
S	Red alder	<i>Alnus rubra</i>				5	5	
H	Broom sedge	<i>Carex scoparia</i>			1	20		
H	Jewelweed	<i>Impatiens capensis</i>	20	25	35	30	35	
H	Baltic rush	<i>Juncus balticus</i>	20	25	5	25	5	
H	Toad rush	<i>Juncus bufonius</i>	40	40	30	10	10	
H	Lamp rush	<i>Juncus effusus</i>				10	20	
H	Swordleaf rush	<i>Juncus ensifolius</i>	15	20			1	
H	Rice cutgrass	<i>Leersia oryzoides</i>			5			
H	Bird's-foot trefoil	<i>Lotus corniculatus</i>	2	2	15			
H	Lady's thumb	<i>Polygonum cespitosum</i>	2		2			
H	Maritime rabbit's-foot	<i>Polypogon maritimus</i>	5			5	5	
H	Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>				60	30	
H	Creeping buttercup	<i>Ranunculus repens</i>	1					
H	American threesquare	<i>Schoenoplectus americanus</i>				1	15	
H	White clover	<i>Trifolium repens</i>					1	
Totals:		Native	93	97	56	136	93	95.0
		Invasive	22	25	37	30	35	29.8

Notes: T = tree, S = shrub, H = herbaceous

Red highlighted cell indicaes a non-native/invasive species

Summary:

VT1 through VT6 - Native	79.1
VT1 through VT6 - Invasive	7.0

Meadowdale Beach Park and Estuary Monitoring - Vegetative Transect Cover (Line Intercept)
Year 3 (2025)

Common name	Scientific name	From	To	Total Length (ft)	% Cover
VT11		Transect Length: 50 ft			
Oregon ash	<i>Fraxinus latifolia</i>	2.3	2.5	0.2	0.4
Salmonberry	<i>Rubus spectabilis</i>	20.8	23.8	3	6
Beaked hazelnut	<i>Corylus cornuta</i>	24.8	25.1	0.3	0.6
Salmonberry	<i>Rubus spectabilis</i>	29.9	35	5.1	10.2
Redosier dogwood	<i>Cornus sericea</i>	36	37	1	2
Salmonberry	<i>Rubus spectabilis</i>	45.5	50	4.5	9

Total Cover: 28.2

Native Cover: 28.2

Non-Native Cover: 0

VT12		Transect Length: 50 ft			
Redosier dogwood	<i>Cornus sericea</i>	0	1	1	2
Pacific ninebark	<i>Physocarpus capitatus</i>	6.1	7.7	1.6	3.2
Pacific ninebark	<i>Physocarpus capitatus</i>	29.6	31	1.4	2.8
Scouler's willow	<i>Salix scouleriana</i>	33.8	34.1	0.3	0.6
Scouler's willow	<i>Salix scouleriana</i>	35	35.4	0.4	0.8

Total Cover: 9.4

Native Cover: 9.4

Non-Native Cover: 0

Meadowdale Beach Park and Estuary Monitoring - Supplemental Vegetation Characterization
Year 3 (2026)

Common name	Scientific name	Native / Invasive	Planted / Volunteer	From	To	Salt Tolerance
VT7				Transect Length: 47 ft		
Rice cutgrass	<i>Leersia oryzoides</i>	Native	Volunteer	0	2	Moderately Sensitive
Coastal saltgrass	<i>Distichlis spicata</i>	Native	Volunteer	0	4.6	Very Tolerant
Maritime rabbit's-foot grass	<i>Polypogon maritimus</i>	Native	Volunteer	3	4	Moderately Tolerant
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	3.4	4	Moderately Tolerant
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	6	28.4	Moderately Tolerant
Maritime rabbit's-foot grass	<i>Polypogon maritimus</i>	Native	Volunteer	6.4	7	Moderately Tolerant
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	7.6	12.2	Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	9.6	10.3	Moderately Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	10.8	16	Moderately Tolerant
American three-square	<i>Schoenoplectus americanus</i>	Native	Volunteer	11.5	13.9	Very Tolerant
American three-square	<i>Schoenoplectus americanus</i>	Native	Volunteer	16.4	17	Very Tolerant
White clover	<i>Trifolium repens</i>	Native	Volunteer	16.4	17	Moderately Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	17.4	18.8	Moderately Tolerant
White clover	<i>Trifolium repens</i>	Native	Volunteer	19	19.6	Moderately Sensitive
Balsam poplar	<i>Populus balsamifera</i>	Native	Volunteer	19.7	22.1	Sensitive
Creeping buttercup	<i>Ranunculus repens</i>	Native	Volunteer	22.5	24	Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	25	25.5	Moderately Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	25.3	27.5	Sensitive
Hardstem bulrush	<i>Schoenoplectus acutus</i>	Native	Planted	25.5	26.4	Moderately Sensitive
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	28.2	31.4	Sensitive
Tufted Hair Grass	<i>Deschampsia caespitosa</i>	Native	Planted	28.3	31	Very Tolerant
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	29.7	33.3	Moderately Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	30	32.2	Sensitive
Hairy willowherb	<i>Epilobium hirsutum</i>	Invasive	Volunteer	32.3	33.8	Moderately Sensitive
Douglas aster	<i>Symphyotrichum subspicatum</i>	Native	Volunteer	33.3	35.3	Tolerant
Hairy willowherb	<i>Epilobium hirsutum</i>	Invasive	Volunteer	34.4	39.4	Moderately Sensitive
Giant horsetail	<i>Equisetum telmateia</i>	Native	Volunteer	35.1	35.8	Moderately Sensitive
Himalayan blackberry	<i>Rubus armeniacus</i>	Invasive	Volunteer	36.3	37	Sensitive
Giant horsetail	<i>Equisetum telmateia</i>	Native	Volunteer	36.4	41.2	Moderately Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	37.9	38.5	Sensitive
Cutleaf blackberry	<i>Rubus laciniatus</i>	Invasive	Volunteer	40.2	40.7	Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	40.6	45.1	Sensitive
Salmonberry	<i>Rubus spectabilis</i>	Native	Planted	42.4	45.2	Sensitive
Bull thistle	<i>Cirsium vulgare</i>	Invasive	Volunteer	46.1	47	Tolerant
		VT7 Totals	% Native Cover:	188.1		
			% Invasive Cover:	4.9		

Meadowdale Beach Park and Estuary Monitoring - Supplemental Vegetation Characterization
Year 3 (2026)

Common name	Scientific name	Native / Invasive	Planted / Volunteer	From	To	Salt Tolerance
VT8		Transect Length: 50 ft				
Rice cutgrass	<i>Leersia oryzoides</i>	Native	Volunteer	0	1.9	Moderately Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	0.6	1.8	Moderately Tolerant
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	1.6	4.6	Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	4	18.4	Moderately Tolerant
Hardstem bulrush	<i>Schoenoplectus acutus</i>	Native	Planted	4.3	5	Moderately Sensitive
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	5.8	10.8	Moderately Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	5.9	6.7	Sensitive
Hardstem bulrush	<i>Schoenoplectus acutus</i>	Native	Planted	7	8	Moderately Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	8.2	8.9	Sensitive
Red fescue	<i>Festuca rubra</i>	Native	Volunteer	11.2	11.6	Moderately Tolerant
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	11.8	21.5	Moderately Tolerant
Balsam poplar	<i>Populus balsamifera</i>	Native	Volunteer	13.1	13.5	Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	19.6	28.1	Moderately Tolerant
Balsam poplar	<i>Populus balsamifera</i>	Native	Volunteer	21.5	26.5	Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	25	32	Sensitive
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	28.1	32.4	Tolerant
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	31	35.5	Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	31.6	32.4	Moderately Tolerant
Hairy willowherb	<i>Epilobium hirsutum</i>	Invasive	Volunteer	31.8	37.3	Moderately Sensitive
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	32	33.6	Moderately Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	33	34.8	Moderately Tolerant
Tufted Hair Grass	<i>Deschampsia caespitosa</i>	Native	Planted	37	39.3	Very Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	38.7	40.9	Sensitive
California blackberry	<i>Rubus ursinus</i>	Native	Volunteer	39.6	40	Moderately Sensitive
Hairy willowherb	<i>Epilobium hirsutum</i>	Invasive	Volunteer	40.7	42.3	Moderately Sensitive
Western swordfern	<i>Polystichum munitum</i>	Native	Planted	42.8	45.4	Moderately Sensitive
Hairy willowherb	<i>Epilobium hirsutum</i>	Invasive	Volunteer	46.7	47	Moderately Sensitive
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	46.9	50	Moderately Tolerant
VT8 Totals		% Native Cover:	181.4			
		% Invasive Cover:	0			
VT9		Transect Length: 50 ft				
Watercress	<i>Nasturtium officinale</i>	Native	Volunteer	6.4	19	Sensitive
Jewelweed	<i>Impatiens capensis</i>	Invasive	Volunteer	19	27	Very Sensitive
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	26.6	32	Sensitive
Watercress	<i>Nasturtium officinale</i>	Native	Volunteer	27	28.3	Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	27.8	29	Moderately Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	29.4	33.5	Moderately Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	31.2	37.2	Sensitive
Swordleaf rush	<i>Juncus ensifolius</i>	Native	Volunteer	31.6	32	Moderately Sensitive
Field horsetail	<i>Equisetum arvense</i>	Native	Volunteer	32	48	Sensitive
Lygnbye's sedge	<i>Carex lyngbyei</i>	Native	Planted	36.7	39.4	Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	38.7	39.2	Moderately Tolerant
Jewelweed	<i>Impatiens capensis</i>	Invasive	Volunteer	39.3	40.8	Very Sensitive
Sitka willow	<i>Salix sitchensis</i>	Native	Planted	42.3	44.3	Moderately Sensitive
Sitka willow	<i>Salix sitchensis</i>	Native	Planted	46.4	50	Moderately Sensitive
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	47	47.5	Tolerant
VT9 Totals		% Native Cover:	112.6			
		% Invasive Cover:	19			

Meadowdale Beach Park and Estuary Monitoring - Supplemental Vegetation Characterization
Year 3 (2026)

Common name	Scientific name	Native / Invasive	Planted / Volunteer	From	To	Salt Tolerance
VT10				Transect Length: 50 ft		
Rice cutgrass	<i>Leersia oryzoides</i>	Native	Volunteer	0	2.6	Moderately Sensitive
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	1.5	2.8	Moderately Tolerant
Scouler's willow	<i>Salix scouleriana</i>	Native	Planted	2	3.3	Moderately Sensitive
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	2.4	16.6	Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	4	6.7	Moderately Tolerant
Bird's-foot trefoil	<i>Lotus corniculatus</i>	Native	Volunteer	5	41.3	Moderately Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	9	12.4	Moderately Tolerant
Lygnbye's sedge	<i>Carex lyngbyei</i>	Native	Planted	11.3	13	Tolerant
Pacific silverweed	<i>Potentilla anserina ssp. Pacifica</i>	Native	Planted	15.6	20	Moderately Tolerant
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	18	24	Tolerant
Rice cutgrass	<i>Leersia oryzoides</i>	Native	Volunteer	18.6	20.7	Moderately Sensitive
Sitka willow	<i>Salix sitchensis</i>	Native	Planted	24	25.2	Moderately Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	24	25.9	Sensitive
Creeping buttercup	<i>Ranunculus repens</i>	Native	Volunteer	26	26.5	Sensitive
Balsam poplar	<i>Populus balsamifera</i>	Native	Volunteer	26.4	27.2	Sensitive
Red alder	<i>Alnus rubra</i>	Native	Volunteer	30	30.6	Sensitive
Tufted Hair Grass	<i>Deschampsia caespitosa</i>	Native	Planted	30.5	31.3	Very Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	31.5	38.4	Sensitive
Balsam poplar	<i>Populus balsamifera</i>	Native	Volunteer	32	32.4	Sensitive
Sitka willow	<i>Salix sitchensis</i>	Native	Planted	32.4	33	Moderately Sensitive
Lamp rush	<i>Juncus effusus</i>	Native	Volunteer	32.6	37	Tolerant
Creeping buttercup	<i>Ranunculus repens</i>	Native	Volunteer	33	34.7	Sensitive
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	37	39.1	Sensitive
Butterflybush	<i>Buddleja davidii</i>	Invasive	Volunteer	37.4	43.2	Moderately Tolerant
Red alder	<i>Alnus rubra</i>	Native	Volunteer	41.7	44.4	Sensitive
Small-fruited bulrush	<i>Scirpus microcarpus</i>	Native	Planted	43	47.4	Sensitive
Tufted Hair Grass	<i>Deschampsia caespitosa</i>	Native	Planted	45.4	46.6	Very Tolerant
Beach strawberry	<i>Fragaria chiloensis</i>	Native	Planted	46.6	50	Very Tolerant
VT10 Totals		% Native Cover:	219.2			
		% Invasive Cover:	11.6			

Summary:	Average
VT7 through VT10 - % Native Cover	175.3
VT7 through VT10 - % Invasive Cover	8.9